

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 July 2005 (14.07.2005)

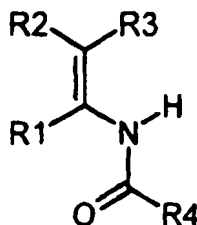
PCT

(10) International Publication Number  
**WO 2005/063687 A3**

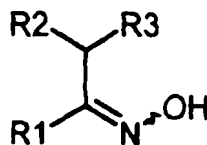
- (51) International Patent Classification<sup>7</sup>: **C07C 231/10**, 233/00
- (21) International Application Number: PCT/IB2004/004363
- (22) International Filing Date: 22 December 2004 (22.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 03293281.6 22 December 2003 (22.12.2003) EP
- (71) Applicant (for all designated States except US): PPG-SIPSY [FR/FR]; Z.I. La Croix-Cadeau, B.P. 79, F-49242 Avrillé Cedex (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BURGOS, Alain [FR/FR]; 9, rue Paul Gauguin, F-49130 Les Ponts de Ce (FR). BERTRAND, Blandine [FR/FR]; Basclot, F-49440 Angrie (FR). ROUSSIASSE, Sonia [FR/FR]; La Robinsonne, F-49125 Chiffres-Saint-Sauveur (FR). PLUVIE, Jean-François [FR/FR]; 55, rue de Villoutreys, F-49000 Angers (FR). BLANCHET, Sylvie [FR/FR]; Lotissement du Petit, F-49460 Feneu (FR). MARTIN, Juliette [FR/FR]; 2 Résidence Montesquieu, F-49100 Angers (FR). PERRIN, Florence [FR/FR]; 12, Allée Garcia Lorca, F-49240 Avrillé (FR). BOURDEAU, Françoise [FR/FR]; 8, rue des Vauguenais, F-49370 St Clement de la Place (FR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- (88) Date of publication of the international search report: 27 October 2005
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

\* New address = ROUSSIASSE, Sonia [FR/FR]; 73 rue du Docteur Chailoux, F-49330 Champagne (FR).

(54) Title: NEW PROCESS FOR THE SYNTHESIS OF ENEAMIDE DERIVATIVES



(I)



(II)

alkyl, alkylaryl or aryl group), said alkyl, cycloalkyl, cycloalkylalkyl, alkylaryl and aryl groups being substituted or not with a functional group or with R5; or R1 and R2 taken together, may form a ring (which terms includes mono-, di- and higher polycyclic ring systems); R4 is a hydrogen atom, an alkyl, an aryl, an alkylaryl, said groups are substituted or not with a halogen atom as Cl, Br, or F; X is an oxygen atom or a leaving group and m is an integer 1 or 2; when m is 1 then X is a leaving group; when m is 2 then X is a oxygen atom, which comprise: a hydrogenation/isomerization reaction in presence of a heterogeneous catalyst, of an oxime derivatives of formula (II) wherein R1, R2 and R3 are as defined above with an acyl derivative of formula (III) (R4CO)<sub>m</sub>X wherein R4, m and X are as defined above

(57) Abstract: A process for the production of ene-amide derivatives represented by the formula (I) wherein R1 and R2 and R3 are independently a hydrogen atom, an alkyl, a cycloalkyl, a cycloalkylalkyl, an alkylaryl, an aryl, a heterocycle, a cyano, an alkoxy, an aryloxy, a carboxyl, a carbamoyl, -CONR5R6 (in which R5 and R6 are independently an alkyl, arylalkyl or aryl group said ring being substituted or not with a functional group or with R5) or -COOR5 group (in which R5 is an